Machine-Ready Blanks

Start your next CNC job here and save

Save On:
- Material Prep Time
- Set Up Time
- Cycle Time
Make parts faster with TCI Machine-Ready Blanks.

Machine-Ready Blanks let you get right to the high value process of finish machining:

- Reduce cycle time, chip-to-chip
- Produce more parts, faster
- Reduce part movement
- Reduce prep time
- Reduce scrap
Commitment to Quality.

TCI Precision Metals is committed to continuous quality improvement as outlined by our ISO 9001 and AS 9100 certifications. The value to all of our customers includes documented quality management and manufacturing processes that ensure repeatable accuracy from part to part.

Parts are qualified in TCI’s temperature-controlled, 2,500-square foot quality assurance room which includes three coordinate measuring machines with travels up to X-79”, Y-48”, Z-40” and resolutions of .00002”. Portable CMMs are also used for in-process inspection on the shop floor. When requested, TCI can supply individual inspection reports for finished Blanks to help minimize your incoming inspection time.
Precision Machine-Ready Blanks

- Made to order from one to thousands
- No Blank too big or too small
- Just-in-time inventory management available

Third generation, family owned business—Ben Belzer and his dad, John.
Blanks. Any Size, Any Shape.

Custom Machine-Ready Blanks are made to order, based on your unique specifications to make them ‘machine-ready.’ They are available in any shape and size, in quantities from one to thousands. For larger orders TCI offers vendor-managed inventory management to help with production timing and flow. Typical Machine-Ready Blanks fall into three categories:

**Custom Machine-Ready Blanks**

Typically, these are square, rectangular or round stock milled to your custom net specifications. They can be furnished as close as +/- .0005” dimensionally and as close as .0002” in flatness, squareness and parallelism. Each Blank is deburred, cleaned and vacuum packaged (if possible) to eliminate the possibility of any damage in handling and shipping.

**Feature-Added Blanks**

Feature-added Blanks are milled to the same tight tolerances as custom Blanks, but include one or more features specified by you. A typical added feature might be a large amount of material removal; e.g. milling all six sides of a rectangular Machine-Ready Blank with opposing steps. When the Machine-Ready Blanks arrive with additional features added, less in-house machine time is required.

**Customer Furnished Blanks**

Quite often there can be a feature on a part that is very time consuming to complete in your shop; e.g. hogging off 13-8 material. TCI Precision Metals uses specialty duplex milling to reduce the cutting time to a fraction of what it would typically take on a job shop floor. Customer end costs are further reduced by not having to buy expensive cutting tools or inserts and production bottlenecks are avoided, which leads to increased shop capacity.
Specialized Equipment Makes it Possible

TCI Precision Metals has a large inventory of specialized milling and grinding equipment, capable producing Machine-Ready Blanks far more efficiently than a multi-faceted machine shop or manufacturing floor. The resulting value translates directly to your bottom line by allowing you to produce more finished parts, faster.

Double-Disc Grinding
TCI utilizes ten specialized Double-Disc grinders to provide optimum part-to-part parallelism and flatness consistency, which is recommended for Blanks that will be stacked or spot-faced in machining operations.

Blanchard Grinding
Five modified Blanchard grinders are used to quickly remove stock from one side of Blanks at a time that are typically too large to be Double-Disc ground. Ideal for large Blanks.

Duplex Milling
Fourteen highly specialized Duplex Mills provide extremely cost effective high quality square-corner Blanks. Consistent tolerances are produced on multiple Blanks milled simultaneously.

Wide Range of Materials

TCI is a warehouse metals service center with over 500,000 pounds of inventory available for quick turnaround on customer requirements, including 6061, 2024 and 7075 aluminum plate and sheet, stainless steel plate and several other alloys. Below is a partial list of materials we work on; a complete list is available at www.tciprecision.com/machine-ready-blanks/materials. Call for details.

<table>
<thead>
<tr>
<th>Materials</th>
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<tbody>
<tr>
<td>Aluminum</td>
<td>Titanium</td>
<td>Tool Steels</td>
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<tr>
<td>Stainless Steel</td>
<td>Copper</td>
<td>Plastic</td>
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<tr>
<td>Brass</td>
<td>Carbon Steels</td>
<td>High Temp &amp; Nickel-Based Alloys</td>
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Customer-Supplied Stock
We welcome customer-furnished materials. Supply us with your aluminum, stainless steel plate or other materials we’ll take care of the sawing, grinding and milling to your specifications.

800-234-5613 • www.tciprecision.com